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INTERNATIONAL RICE COMMISSION

Report of the First Session Bangkok, Thailand, 7-16 March 1949



10D AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS -

Bangkok, Thailand. March 1949

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FOREWORD

THE Inaugural Session of the International Rice Commission marks a significant step in the effoits of governments to brin. Thout the systematic recolopment and improvement of the rice economy of the world. The Commission is charged with the responsibility of formulating a world rice policy based upon human needs and of building and promoting a program of rice profuction instribution, conservation and consumption which utilizes fully the absence knowledge of research and technology and seeks to improve the economic states and welfare of rice profucers and consumers that

Several other commodity commissions and councils have been in existence for some years, primarily concerned with various regulatory aspects of informational trade. But the Rice Commission is the flist international body which has the express function of dealing, with the problems of ruising production and improving the utilization of such an essential fool. While the Commission is not concerned with problems of international allocations of trade its program will complement the efforts of other agencies responsible in these fields.

Freegone familian with the conditions under which rice is frown maikete 1 and consumed will appreciate the magnitude and complexity of our task They will agree also with the decision of the Commission that effective work on all phases of the rice problem cannot be carried on simultaneously Rather a start must be made on a few projects that are basic in character and that show promise of tangible results within a reisonable time Some readers of this report may feel disappointed over the elementary nature of the Commission's program for the year sheed but it should be remembered that fundamen. tal improvements in agriculture and nutrition come very slowly, especially among people who lack the educational and other resources for taking advantage of the knowledge of science and technology. But a good start has been made during the first Session toward the pooling and exchange of essential information and technical assistance. The Commission has agreed on certain priorities of worl and upon a procedure for carrying it forward has reached decisions on a number of basic questions of rice terminology and statistical reporting -- questions that must be decided in the beginning so that the Commission and its members may have common working tools

The work of this meeting has prepared for greater advancement in the next. Agreement was reached on many jobs that can be done now and that I believe It will be noted that five member countries have undertaken to will be done do certain specific work for the benefit of all others and, of course, for them-Surely this is a healthy sign, for it shows true co-operative spirit. which will I think act as an incentive for others to contribute their quota to the common pool in the future

Outwardly farmers are pessimists they always grumble about the weather and the difficulties that beset their calling but, luckily for the world at large, they are really optimises at heart, for in spite of their difficulties they go on planting their crops and hoping that they will be blessed with good returns Members of the Commission who did me the high honour of electing me as their first Chairman know that I am a farmer, and I may say that I have the feelings of a farmer in regard to the International Rice Commission Tn spite of the tremendous work ahead. I am ontimistic enough to believe that by working together we shall accomplish lasting results and make a worth-while contribution to the objectives of the FAO

HSH Prince Sithiporn Kridakara

CHAIRMAN INTERNATIONAL RICE COMMISSION

Sittipon Kritahara

CHAPTER I

INTRODUCTION

THE International Rice Commission was created after a series of intergovernmental meetings had revealed that unless some international body
was given direct responsibility for concentrating on the nee problem, the position of nee producers and consumers would likely become progressively woise.
The various technical aspects of the problem had been analyzed carefully by
the Rice Study Group at Trivandrum, India in July 1947, and questions of
organization, function and program had been subsequently considered at the
Baguio Rice Meeting in March 1948 1 In November 1948 the Fourth Session
of the FAO Conference, following the recommendations of the Council of FAO
approved the creation of the Commission and instructed the Director-General
to proceed with its organization as soon as the requisite number of governments had accepted the Constitution formulated at Baguio 2 The potiment
decisions of the Fourth Session were as follows

- "(a) The creation of an International Rice Commission in accordance with the provisions of the Draft Constitution for an International Rice Conneil drawn up at the Baguio Conference is approved
- "(b) The International Rice Commission shall make regular reports on its activities to the Council of FAO
- "(c) The Director-General shall, as expeditiously as feasible, proceed with the organization of this Commission and with the preparation of
 - 1 Rules of procedure providing for the necessary integration of the activities of the International Rice Commission with the policies and work of FAO.
 - 11 The necessary financial and administrative regulations"

Up to the time of the Inaugural Session seventeen nations, (viz Buima, Collon, Cuba, Dominican Republic, Ecuadoi Egypt, France, India Italy,

¹ FAO Report of the Rice Study Group, Trivandrum India July 1947 and Report of the Rice Meeting, Baguno Philippines March 1948

^{2 &}quot;This Constitution shall enter into force as soon as notifications of acceptance have been received from the governments of at least ten countries members of the Food and Agriculture Organization representing in the aggregate not less than half of the world production of rice in the crop year 1947/68 as shown by official stanstics" (Article IV, Constitution of International Rice Commission)

Mexico Aetherlands Pakistan Paraguay Philippine Republic Thailand United Kingdom and the United States) had accepted the Constitution and thereby became full members of the Commission Other rice—producing and consuming cuntries members of FAO may join at any time by sending their formal notices of acceptance to the Director General

The agenda of the First Session covered a number of organizational and procedural matters the review of the recommendations of the Triandrum and Bamuo meetings the formulation of the Commission's Program of Activities for 1949 50 and consideration of ways of implementing the several phases of this modium (See Appendix H)

The officers elected for the first year were

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- Chairman H S H Prince Sithiporn Kirlakara Thailan i Vice Chairman Dr W M Clyde United King lom U Khin Burma
- The Director-General of F to after informal consultation with the delegates lesignited Mr William H Cummings as Executive Secretary The head mutters of the International Lice Commission will be at the Regional Office of F to fir t is and the Far Last now located at Bangkok Thailanl

The substantive work of the session was divided among three committees and one subseminities the results of which were reviewed in detail by the Commission as a whole. The committees were

- A Rice Proluction-K Ramiah (India) Chairman
- b Distribution and Utilization of Rice-L B Ellis (U S A) Chairman

 Sibe a mittee n Natistion-l Dorelle (Figure) Chairman
 - C Rice Statistics and Terminolo 3-Felix Rosenfeld (France) Chairman

CHAPTER II

IMPROVEMENT OF RICE PRODUCTION

THE Commission, beauth in mind the discussions of production problems at Trivandium and Baruo, considered the various steps that might be effectively taken to improve rice production. Recognising that only a relatively few problems could be dealt with during the first year and that in many cases information on existing practices and experimental results must be assembled before definite projects can be unleitaken the Commission across to initiate the following actions during the coming year.

PROJECTS TO BE UNDERTAKEN BY THE COMMISSION IN 1949-50

- Assemble descriptions of standard various (in commercial $n \in \mathbb{N}$) and on the various countries usual the folial set with a Appendix C, these descriptions to be supplied by the countries to ΓAO for summarization and distribution to the member countries of the Commission The material should be submitted to ΓAO headquarters by 1. August 1949 1
- 2. Set up a working party on rice breeding to deal with the various spects (yield, disease resistance mutritional value commercial value response to fertilizers, etc.) of this subject including eed multiplication and distribution and recommend to member countries that they make the best breeding specialists available to serve on this working party or to assist in its activities. The working party will be constituted during the year and hold its first meeting just prior to the next unual meeting of the Commission.
- 3 Preprica note on seed disinfection as a means of reducing seed—house diseases the material to be assembled by FAO from the countries that have conducted experiments especially Burma Indo-China Intonesia, India, Japan, and Pakistan² The results will be summarized by FAO and distributed to member countries of the Commission

¹ Countries ir clicated that they will wish to report the following approximate number of student varieties in commercial use

Cylon

Cylon

Malaya

15

Verhorizes

10

Verherlands

26

Malaya

15

Verhorizes

Malaya
 15
 ternicones
 10
 Japan
 50

 France
 150
 Paraguay
 10
 U S
 A
 11
 Inity
 A
 11
 11
 10
 India
 200
 200
 Theiland
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 Australia
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^{2.} Other countries may be included in this and other projects if they so desire

- 4 Prepare a note on treatment of seeds with phosphate solution and other chemicals as a possible means of increasing production, this material to be assembled from countries having done experimental work (Burma, Ceylon India, Japan, and Pakistan), summarized by FAO, and distributed to the member countries of the Commission at the earliest convenience The material should be submitted to FAO by 1, August 1949.
- 5 Collect information available in the countries on mechanization of rice cultivation including its economics, this material to be assembled by FAO primarily from Argentina Australia, Brazil, British Guiana, Ceylon Ruly, Wilaya the Netherlands, Indonesia (Timor Island), the Philippines, Thuland and the United States of America. The material should be submitted by 1, October 1949 to FAO, where it will be summarized and made available to member governments of the Commission.
- 6 Request the Philippine and Thai Governments to undertake special experimental work on the economies of mechanizing rice culture and make the results available to the other member countries of the Commission. It is suggested that these Governments request the help of an FAO adviser in planning and interpreting the results of such studies.
- 7 Collect information on improved tools and implements for small and moderate sized holdings developed in virious countries for use in rice culture and harvesting this information to be assembled from the countries by FAO and made available to members of the Commission perhaps is part of a publication FAO has in preparation on tools and small implements.
- 8. Review the results of recent developments in control of stem borers, this material to be submitted by each country to FAO by 7 August 1949, after which an expert in one of the countries where most work has been done will be asked to prepare a critical summary for distribution to member countries.
- 9 In order to obtain a general picture of the importance of various peaks in different countries, assemble from countries brief statements concerning, peaks that are of economic importance, these statements to be furnished with the material requested under project (8) above.
- 10 Assemble information on the varieties available in each country that are resistant to stem borers, blast (Piricularia), or other pests and diseases, this material to be supplied at the same time and on the same form as the information on standard varieties—(see (1) above)
- 11 Assemble material on general conditions of production in various countries including soil, chimatic, geographical economic and social factors affecting rice yields in order that India and perhaps other countries may use

the material to determine how to raise their average production, this material to be obtained through a questionnaire (see Appendix D) to which countries should reply by I. October 1949 Countries having more comprihensive published material are asked to supply it instead Each country is to supply 20 copies, regardless of the form of the material. After receipt of the material, copies will be sent to each member country of the Commission and the information supplied will be summarized by workers in India and presented to the next annual meeting. Any governments wishing to piepare summaries are invited to send copies to India for incorporation in the preliminary summary to be submitted to the next annual meeting.

- 12 Collect information on fertilizer investigations and practices and on the use of crops for green manure, the material to be sent to FAO by 1. August 1949 for use in preparing a duaft outline paper which will be considered at the next meeting of the Commission and which may then serve as a basis for setting up a working party to develop a co-ordinatel program with relation to organic and inorganic fertilizer experimentation and practice
- 13 Facilitate the exchange of information on crops that may be used for forage and the exchange of seeds for experimental purposes from both green manure and forage crops
- 14 Assemble material on erop retations that have proved successful in upland rice producing regions (France India Japan the Netherlands, Pakistan, the Philippines Paragnay) this material to be submitted to FAO by 1 August 1949 and to be summarized by a scientist in Indo-China.
- 15 Assemble material on the use of pumps driven by windmills and other types of power for use in lifting water for irrigation purposes (from Australia, Egypt, India Italy, Japan Malaya, Pakistan, the Philippines, Thailand, and the United States of America) this material to be supplied by 1 October 1949, and summarized by an expert of Thullind and then distributed to the member governments of the Commission
- 16 Secure information (including details on types) on the availability of diagt animals for export in the following countries. France, Paragury, and possibly Thailand; make this information available to the following countries which are definitely interested in importing work stock. Burma, Ceylon, China, and the Philippines.

RECOMMENDATIONS TO MEMBER GOVERNMENTS

The Commission, having considered certain other p oblems upon which action might be taken by governments in lice-producing countries, agreed that

CHAPTER III

RICE DISTRIBUTION AND UTILIZATION

THE Commission recognizing that better nutrition is the end toward which all production efforts are directed that the loss of food and food values between the producer and the ultimate consumer is a basic cause of the world's food deficiencies and malnutrition and that improvements in distribution and utilization have not kept pace with advances in production agreed that action should be taken along the following lines during 1949-50 as a means of minimizing some of these problems

MARKETING AND CONSERVATION OF SUPPLIES

Standardization of Grades and Qualities of Rice

The Commission agrees that a compilation of terminology of the commencial praising of rice commonly used in member countries would be helpful in the international distribution of rice. It is recommended that member governments should each submit a descriptive glossary of terminology used in rice grading to the Executive Secretary for compilation and for circulation to member governments.

Storage of Rice

Following the recommendation of the National Rice Conservation Campaign made at the Baguio Meeting recognizing the importance of the problems concerned with rice storage and noting the progress made by some member countries in relicing losses from insect and rodent infestation the Commission recommends that information on the storage methods that proved successful in minimizing losses and conserving quality of lice should be collected and made available by the Secretariat to all member governments

Rice Milling Practices

Undermilling The Commission agrees that the use of undermilled rice should be encouraged according to the recommendations of the Trivan-

hum and Basuo Meetins. In some member countries government resultations permit only the production of undermilled rice. The Commission notes that at present certain technical difficulties exist in the production and storage of this type of rice. It is urged however, that each member Lovernment should actively take necessary steps conducive to the use of under-milled rice.

Exhibition of Rice Villing and Processing Equipment Collaborative studies by engineers and intrition workers to improve the design of rice mills are important. As a step in pionoting such studies the Executive Secretary is requested to look into the possibility of inviting the manufacturers of various types of milling and pioneessing, equipment from different parts of the would to organize an exhibition of their products at the next meeting of the International Rice Commission

Utilization of Rice By products

The Commission realizes the desirability and possibility of utilizing the by products of the lice plant such as lice staw hisk and bran for the manufacture of valuable industrial and food items. Such a practice will not only contribute greatly to the economy of the rice-producing countries but will also tend to improve the social and economic condition of lice farmers. Adequate measures should be taken by the Secretariat of the Commission to obtain all information available on the utilization of lice by-liolnets and to place it at the hisporal of member sovernments.

Rice Marketing and Cooperatives

Recognizing the importance of efficient methods of distribution it is recommended that further stuly be made by covernments as to the best way of adopting co-operative principles in the marketing of products and purchasing of supplies by rural people

Transport Equipment and Storage Material

In view of the difficulties encountered by rice-producing countries in South First Variowing to the inflequency of rulway and other transport equipment and of materials for providing storage facilities the Commission recommends that FAO seek the cooperation of all governments and other International Organizations to make such equipment and material available immediately.

NUTRITIONAL ASPECTS

The follow n_{\circ} recommen lations covering the nutrition il aspects of the rice problem were riopic by the Commission (see Appendix L - Report of the Nutrition Subcommittee)

Definition of Properly Milled Rice

There is need to alive at an international lefinition of properly milled rice from the point of view of nutrition 13 determining the optimum legice of removal of certain parts of the grain. It is recommended that further studies on the distribution of the nutrients in the various ringeline of the grain should be encouraged.

Parboiling

The Commission believes that the problem of pruboiling should receive the most urgent attention from all authorities conceined and recommends that more study should be confueded as soon as possible on the various phases of the problem in the light of the following free?

- 1 In the past objections raised against the use of parboded rice generally referred to unsuitably prepared products. It is now possible to obtain products of a much better quality by improved methods.
- 9 Paib ilm, makes it possible to pioluce from a tiven amount of pilly more rice with less breakage in milling to use a lower girde of pally to obtain a rice with superior keeping qualities and to retain more of the nutrients of the grain during milling washing and cooking. As a consequence the aloption of parboiling would result in large savings of rice and even more important of valuable vitamins and miner ils.
 - 3 The acceptability and the establity of suitably property parbolled nice have not been sufficiently tested a none p pulations accustomed to other types of nice

Nutrition Research Fund

The Commission fears that the various priorities facing a 1 covernments would scriously below the undertaking of urgently needed rice research

It accommends that FAO explore the constitute of securing peeral funds for nutrition research on rice and also that it ask each member

government to assist in such research by contributing funds or by undertaking programs of work. The Director-General should be a ked to ascer tum the nature and/or scale of centribution of in his linal countries.

Incidence of Disease and Malnutration

The Commission has taken into consideration the serious incidence of malutin and malnutration in free-producing countries and wishes to support the conclusion. If the nutrition expects on this problem is indicated in $All\ n\ like\ L$

Nutrition Surveys and Education

The Commission iccognizing the uigent need for more recent data on the nutritional status of the rice-cating and rice-piolineing populations recommends the number of verification conduct nutritional surveys as soon as possible in order to report on the results to the forthcoming meeting of the Nutrition Committee

It fully indires that this is in acute shortage of trained personnel available 1 individuo word in most of the member countries and recommends that in ad just training program be undertaken. As most member c untries at not in a position to implement such a recommendation fully at present the training of nutrition workers should be arranged under the auspiess of the Commission. An adequate pool of personnel is necessary as the first essential to any alvance in research work—nutritional survey of otherwise.

CHAPTER IV

RICE STATISTICS AND TERMINOLOGY

THE foundation for improvement of tice statistics was laid in the recommendations of the Rice Study Group the Sungapore Statistical Conference, and the Baguio Rice Meeting. These recommendations therefore are accepted as the basis of the Commission's Statistics Program and have the general support of all participating members. But the immediate task ahead is to translate these recommendations into action and especially to focus attention and initiate work on those phases of the problem that are susceptible to carry softition. This has been the guiding principle in adopting the following program and recommendations.

STANDARD STATISTICAL PRACTICES

As initial steps in the development of a Rice Statistical Code, the Commission hereby agrees that the standard statistical practices outlined below will be adopted in reporting and publishing rice statistics for international use, and it urges their acceptance by the FAO and each member government

Use of the Metric System

All rice statistics published or released by the Commission and FAO for international use and those reported by governments for this purpose will be expressed in the metric system in particular metric tons kelograms and hoctaics as standarl units. Use of the term 'quintal' in international statistics is not recommended.

Standard Rice Year

A standard rice year will be adopted for statistical purposes, as determined by FAO after examination of planting and harvest periods for ilice and consideration of similal reporting periods for related crops

Statistical Rice Equivalents

International statistics relating to production will be expressed in terms of "paddy" equivalents, and statistics of trade and consumption will be expressed as "milled rice" equivalents except for by -products,

Statistics of Rice Areas

- 1 Areas under louble or triple rice-or print, will be counted two or three times in rep time, the government of cultivited rice limits and when possible the amount of this multiple cropped area will be inducted in a footnote.
- 2 Statistics of cultivated lice lands will indicate whether the area of the lands is included or actually mile included an estimate of the percent and the percent of the p
- 3 Statistics of nice area will be reported in terms of both the sawn and the harrested area whenever possible but if only one can be reported the sown area is preferred. In either event, the footnate will indicate which homes is used.

Rice Terminology

The term and definition in tell in Appendix F will be used in the Commissions publications and datastics. 1AO is requested to supplement this table with a first of commutable local terms and definitions for each country

RECOMMENDATIONS TO MEMBERS AND EAG

The Commington is commented that the following mixtures to taken by member governments with a view to improving their plantal like statistics

Standard Conversion Rates

All otermines are un-elto in-examine the standard e nversion rates of fails to rice a linee fi brets in when used in their requestive countries first attential fails one unit establish if noted lates the contein in the more applicable to current enditions. If NO is requested (a) to make (nqi i) of movernments e necroning any new rates that may be established including, information on the analytical and become all assisted established rates and (b) to first to assist members in our amount studies of actual outtuin unles existing milling and home—pointhin paractices.

Manual of Rice Conversion Factors and Related Information

FAO: requested to compile and publish a handbook of equivalents and consersion tietors governs the most common system of weights measures,

and area units applicable to nice production and trade in each of the countries concerned and to include a summary of these conversion factors in its principal statistical publications

Rice Balance Sheet

It is recommended that a stantualized form of free bilance sheet be utilized by all governments in estimating production and supplies consumption and experts and that these balance sheets be drawn up in accordance with the method outlined in Appendix G

Forward Estimates of Rice Production Consumption and Trade

FAO is requested to revise and publish up-to-late estimates of consumption production, trade and supplies of rice such as given in Appendix B of the Report of the Baguio Rice Meeting

The 1950 Census Program

Since the 1950 census will provide a much needed foundation for the extension and improvement of rice statistics the Commission wives its full support to this program and recommends that

- 1 FAO invite sovernments of all rice-piolucin, countries to submit not later than 30 June 1949 additions to the list of items proposed for inclusion in the 1950 census schedule and that the information riceived be liss minately to all governments.
 - 2 Countries that a lopt the minimum list of census items (Part A of the Census Program) add under II 7 Arable Lan I the necessary subcategories to indicate the areas suitable for major crops particull vly lice
 - 3 The following footnotes be added under IV Creps

For shifting cultivation especially under the entitivition the it as under such cultivation should be estimated

In countries where sample checking hell by full r fum by firm by teams of skilled enumerators is contemplated the determination of the proportion of the bunds usually included in area figures to the total areas of rice fields should be made

4 Pilot tests if possible be carried out by countries lumm, the second bulk of 1949 in order to check the practical value of the forms and of the methods which are being cluborated and the information succellected be communicated by FAO is early is 10s ible to all countries concerned

5 The Commission expresses its hope that, if at all possible, the 1950 census will be taken by covernments in that year, but recognizes that in certain rice-producing countries it may be advisable in view of unsettled conditions to defer temporarily the taking of a complete census so that the results will be of maximum usefulness. However, the Commission urges that all governments make the necessary financial aliministrative and technical preparations now so that the success of the world census program will be assured whenever it is accounted in

Review of Action Taken

Prior to the next and subsequent sessions of the Commission, governments will be requested to report through the Executive Sceretary the steps tiken and the progress made in adopting the Standard Practices recommended above and in implementing the other proposals contained in this Chapte. A summary of this information will be presented by the Executive Secretary to the next and subsequent regular sessions

Members we requested to send their first report to the Executive Secretary not later than I January 1950

ESTABLISHMENT OF STATISTICAL ADVISORY AND RESEARCH UNIT

Functions

The Commission having ascertained that its member governments have a comme interest in improving their rice statistics, is of the opinion that this can be accomplished most effectively through the systematic interchange of intermation in large with the help of FAO. It therefore urges that 1 to establish in their region if offices a Statistical Advisory and Research Unit which can aid in methodological research and provide assistance to the governments and to the Commission such as

- 1 Direct help to governments upon request in analyzing the deficiencies in their rice statistics systems and in letermining what improvements can be made.
- 2 Oi-anization of, and assistance to training centers in statistics and consuses to serve the lice-producing countries.
- 3. Assistance to the Commission and its statistics committees or working groups in the pluming and initiation of studies to clarify questions of statistical method, coverage, definitions, and interpretation and in the provision of general statistics advisory services.

- 4 Assistance in the levelopment of improved definition of giales and standards of rice with appropriate consultations with international agencies and the rice tidle in this patter.
- 5 Dissemination of available information relating to successful practices being used in the collection compilation tabulation and analysis of agricultural statistics

Activities of Statistical Unit During 1949--50

The Commission recommends furt I that these Statistical Advisory and Research Units concentrate upon the following projects hiring the next year of two all of which are sponsored by the Commission and upon which full collaboration can be expected from mend ets of this Commission

- 1 Systematic analysis of current methols and deficience is in copestimating, and reporting systems with a view to improving neostatistics and extending as rapidly as feasible the scope of statistical estimates and pullications to cover a wider range of items
 especially those concerning utilization of supplies trade millintoeds on hand farm and market prices rations and loss estimavarious staces of marketing, and utilization. In the analysis of
 current methods of determining estimating or checking the area
 condition yield and production of paddy consideration should be
 given to procedures for making, objective tests of such estimates
 exceptions.
- 2 Compilation of crop calcular and a timetable of statistical reports relating to size showing the times whin various reports are scheluled for release by overnments
- 3 Development of a chelide of data to b firmshellly member countries on normal requirements of secland animal feed
- 4 Since the improvement of statistics is closely associated with the lay-to-day process of assembling and reporting statistics the Commission urges FAO to consider the feasibility of making the regional Statistical Advisory and Research Units responsible for the assembly of at least part of the primary rice statistics from covernments in the region and for their summarization and transmittal to head quarters

CHAPTER V

CENERAL AND FINANCIAL MATTERS

THE Commission considered certain other matters having an important bearing on all the technical fields discussed above and took the following action.

Newsletter and Library

- 1 As soon as feasible the commission desires to establish a film library to which each government will contribute one copy of each educational strip and movie film that is prepared on subjects relating to the production distribution and utilization. Such films will be available on a lovul basis to all members.
- 2 The Freenire Secretary is requested to issue new letters at appropriate microbs summinimalicent important developments relating to rice in duction and utilization. For use in preparing these news letters member countries will submit material o FAO quarterly by the following lates. January 1. April 1 July 1. October 1.

Personnel and Budget

- 1 The Commission accommes that the existing FAO staff assigned to work on matters of concern to the Commission while adequate to han die most of the work proposed for 1949 may not be large enough to handle promptly some kinds of projects. It also recognizes that the problem of technical personnel may become more sente as the Commissions program of work develops. It therefore requests that
 - The Director-General provide, within limits of existing funds sufficient personnel to carry out the technical projects proposed and particularly that provision be made in 1949 for adequate personnel to handle the work proposed on fertilizers
- 2 The Director-General is requested to include in the 1950 Budget Request of FAO sufficient funds to carry forward the work of the Commission taking into account recommendation I above and the program outline in precedure, sections of this report.

Implementation of the Program by Governments

Because of the dislocation of production as a result of the last war, shortage of food is still causin; har iship and misery among the people in many countries. The Rice Commission has been established primarily for the purpose of solving as expeditiously as possible the problems of production and distribution of rice supply. To attain this objective, all member nations must work co-operatively and in consultation with one another National FAO Committees can be of great help to governments and to the Rice Commission by following up and implementing the policies and recommendations adopted in the Commission's meetings for this reason, all member intions are uiged to use their FAO Committees whenever possible on Rice Commission affairs. Where active National FAO Committees do not exist governments are uiged to assign personnel and where possible, to organize a separate office exclusively for the promotion and co-ordination of the work of the Rice Commission and related FAO matters

Rules of Procedure

The Commission after detailed consideration of the draft submitted by the Director-General of FAO formulated and adopted the Rules of Procedure contained in Appendix B

Next Session of the Commission

The Commission unanimously accepted the invitation of the government of Buima to hold the 1950 session in that country at some convenient time between mid-January and mid-February, 1950

It is recommended that, if feasible, the next meeting of the regional Nutrition Committee for Asia and the For East be hell immediately prior to the Commission's session and at the same place

The agenda shall contain the items provided for in Rule IV of the Rules of Procedure, plus the following

- Establishment of in Agenta Committee
- 2 Examination of the factual reports on various aspects of production and consideration of ways of implementing the actions suggested therein, especially
 - a Survey of standard varieties,
 - b Seed disinfection as a means of reducing seed-borne diseases,
 - c Seed treatment with chemicals to increase yields
 - d Mechanization of lice culture,
 - . Development in the control of stem borers

- f. Conditions of production affecting tice violds.
- ¿ Fertilizei practices,
- h Cron actations
- 1 Use of pumps in nergation,
- Availability of diaft animals for export
- 3 Reports by working parties and governments on actions taken to implement the recommendations on production, distribution, utilization, statistics and terminology
- 4 Statistical advisory services for the design and analysis of tice ex-
- 5 Other topics which members may suggest to the Executive Secretary during the year

APPENDIX A

CONSTITUTION OF INTERNATIONAL RICE COMMISSION

PREAMBLE

The Council of the Food and Agriculture Organization of the United Nations, having regard to the deliberations of the Rice Study Group which met at Trivandium of the Thirl Session of the Conference of the Organization, and of the International Rice Meeting held at Baguio and with a view to co-operative action in matiers relating to the production conscivation distribution, and consumption of rice (excepting matters relating to international trade) hereby establishes an International Rice Commission in accordance with the following Constitution

ARTICLE I THE COMMISSION

there shall be a Commission known as the International Rice Commission, with the functions set forth in Article IV of this Constitution

ARTICI E II MEMBERSHIP

The members of the Commission shall be such of the governments, members of the Food and Agriculture Organization of the United Nations, as may accept this Constitution in accordance with the provisions of Article VII hereof

ARTICLI' III ORGANIZATION

1 Each government that becomes a member of the Commission as define I in Article II hereof (hereinafter called a "member government") shall have the right to be represented at meetings of the Commission by a single delegate who may be accompanied by an alternate and by experts and advisers. Afternates, experts, and advisers shall be entitled to take part in the proceedings of the Commission but not to vote, except in the case of an alternate who is duly anthorized to act for a delegate.

- 2 Fach mender "overnment shall have one vote. Decisions of the C m mission shall be taken by a simple majority of votes east except as otherwise provided by this Constitution. A majority of the members of the Commission shall constitute a growing.
- 3 The Cerrmission shall elect a Chairman from among the delegates who shall serve for a period of one year without prejudice to the right of re election-
- 4 Subject to the provisions of paragraphs 2 and 5 of this Article the Commission shall with the concurrence of the Director General of the Fold in the recibility Or anization, establish it own rules of procedure and determine the model of the model.
- 5 The Chairman shall call a meetin of the Commission at least once a year unless otherwise directed by a majority of member governments. The initial meetin, shall be called by the Director General of the Food and A riculture Organization within six months after the entry into force of this Constitution and a year, and the mandata within the control of the control
- 6 Any member assertment shall have the right with the concurrence of the first ctor General of the Food and Agriculture Organization to call for a special meeting of the Commission.
- 7 The sent of the Commission shall be the same place as the sent of the Far Fastern religion of the Food and Agriculture Organization
- 8 The Director-General of the Fool and Agriculture Organization shall appoint a Secretary to the Commission and shall provide its Secretariat from the staff of the Far Eastern regional office.

ARTICLE IV

The Commission shall except in matters relating to international trade have the functions of

- (a) f rmulating and keepin under review the scientific technical and economic problems involved in the production conservation distribution and consumption of rice
- (b) promoting and co-ordinating research into those problems and its applica ion to the development and adoption of improved methods in vertilar practice.
- () enconraging and a sisting the mobilization and use of scientifically and technically trained per one in such a way as to secure the greatest common benefit to member countries in matters r lating to the production conservation instribution and consumption of rice.

- (d) undertaking, where necessary and appropriate co-operative projects directed to the solution of the above-mentioned problems,
- (e) assembling, collating, and disseminating, through the publications of the Food and A_p-riculture Olganization and otherwise information relating to the production conservation distribution and consumption of rice,
- (f) establishing such committees and calling such meetings of experts as the Commission may consider desirable for the performance of the foregoing functions
- (g) recommending to member povernments, through the Food and Agriculture Organization such national and international action as may appear to the Commission to be necessary or desirable for the solution of the above-mentioned problems
- (h) recommending to the Food and Agriculture Olganization the provision of technical assistance to member governments in measures directed to that end
- extending its good offices in assisting member governments to secure materials and equipment necessary for improvement of the production, censervation, distribution or consumption of rice
- (1) reporting annually on its activities to the Council of the Food and Agriculture Organization and making such other reports to the Food and Agriculture Organization on matters relating to the production conservation distribution, and consumption of rice as the Commission itself may consider expedient or the Council of the Food and Agricul ture Organization may require

ARTICLE V CO-OPERATION WITH INTERNATIONAL ORGANIZATIONS

The Commission shall maintain, through the Feol and Agriculture Organization close has no with the United Nations and its specialized agencies in matters of mutual interest

ARTICI E VI EXPENSES

I Expenses incurred by delegates and their alternates, experts and advisers in attending meetings of the Commission and expenses incurred by experts under paragraph (f) of Article IV hereof shall be determined and pand by their respective governments

- 2 The expenses of the secretariat of the Commission and any expenses incurred by the chairman of the Commission in performing duties connected with its work in intervals between meetings of the Commission shall be determined and paid by the Fool and Agriculture Organization within the limits of an unusual budget prepared and approved in accordance with the Rules of Procedure and Firmmer's Regulations of that Organization for the time being in force
- 3 Expenses incurred by the Commission in undertaking any co-operative project in accordance with paragraph (d) of Article IV hereof shall, unless they upone to the I'ood and Agriculture Organization or from any other source, be determined and paid by member governments in such manner and proportions as they may mutually agree

ARTICLE VII ACCEPTANCE AND WITHDRAWAL

- 1 Acceptance of this Constitution by any member government of the Food and A_nieuthrue Organization shall be effected by the deposit of a notification of acceptance with the Director—General of the Organization and shall take effect on receipt of such notification by the Director—General, who shall forthwith inform c th of the member governments of the Organization.
- 2 Any member coverament may withdraw from the Commission at any time after the expiration of one year from the date on which its acceptance takes effect or this Constitution comes into force whichever is the later, by alving written notice of such with linval to the Director-General of the Food on I Agriculture Organization who shall forthwith inform all member governments of the Commission. Any such notice of with linval shall become effective six months that the date of its receipt by the function-General

ARTICLE VIII AMENDMENTS

This Constitution may be amended by the vote of a two-thirds majority of all the members of the Communism mouth the concurrence of the Communication of the Lord on Lagrandium Organization

ARTICLE IN ENTRY INTO FORCE

This Constitution shall enter into force as soon as notifications of acceptance have been received from the governments of it least ten countries members of the kool and Agriculture Organization representing in the aggregate not less than half of the world production of free in the crop year 1947/48 as shown by official statistics

APPENDIX B

RULES OF PROCEDURE OF THE INTERNATIONAL RICE COMMISSION

RULT I I or the purposes of these Rules the following definitions shall apply -

mission

Chairman Vice-Chan man

Director -General

Commission	- International Rice Commission	
Con fer ence	- Conference of the Fool and Agriculture Organi-	
	ration of the United Vations	
Constitution	- Constitution of the International Rice Commis-	
	410D	
Council	- Council of the Fool and Agriculture Organiza.	
	Confesence Constitution	

tion of the United Na ions - Director-General of the Food and Agriculture Organization of the United Nations Member governments - Member governments of the International Rice

- Chairm in of the International Rice Commission

- Vice-Chanman of the International Rice Com-

Commission Organization - Food and Agriculture Organization of the United Vations Regional Office - Regional office for Asia and the Far East of the

Food and Agriculture Organization of the United Nations

Executive Secretary - Secretary of the International Rice Commission

RULE II SESSIONS OF THE COMMISSION

In pursuance of Article III, paragraph 5, the Constitution, the Chauman shall convene the Commission to meet annually in regular session unless otherwise directed by a majority of member governments. Each regular session of the Commission shall decide the date of the next regular session

- 2 If un member government so requests, the Churman shall, with the concurrence of the Director-General, convene the Commission to meet in special session within 90 days at such time and place as the Director-General may designate
- 3 Notices of a session of the Commission shall be issued by the Executive Secretary, not less than 50 days in advance of the date fixed for the opening of the session, to member governments and public international organizations eligible to participate
- 4 Any public international organization shall be entitled to participate in ecosions of the Commission if it has concluded in international non-granization providing for reciprocal representation. Any international non-governmental organization may be invited to participate in accordance with the regular conference provisions for such participation.
- 5 Subject to decision of the Commission, the Director-General shall determine what other public international organizations may be invited to pulticipate

RULE III CREDENTIALS

- 1 The credentials of delegates and the names of the members of their delegations and of the representatives of participating public international riganizations shall, insofar as possible, be deposited with the Executive Secretary not later than the opening day of each session of the Commission
- 2 The Freentise Sec etars shall examine the credentials and report there in to the Commission

RULE IV AGENDA

- 1. Proposals for the agenta of any session may be made by any member governmen
- 2 The agenth of each regular session of the Commission shall consist of all items the inclusion of which is lecided upon by the Commission, all items which the Commission of the Commission on the Commission and the Commiss
 - (1) progress reports to the Commission on its work.
 - (b) relevant budgetary proposals and the audited accounts of the Commission

- (c) the reports which the C munission intends to submit to the Council in accordance with the requirements of Article IV (1) of the Constitution and
- (1) proposals for amer liments to the Constitution of any in accordance with Rule XVII
- 3 The agenda of a special session of the Commission convened in pur summer of Rule II, paragraph 2 shall be subject to approval by the Director-General
- 4 A provisional agenta of each session of the Commission shall be sent by the Executive Secretary to member soreinments and to participating, public international organizations not less than 50 days before the late fixel for the opening of the session except as provided in Rule VVII paragraph 2
- 5 Copies of all reports and other documents to be submitted to the Commission at any se sion in connection with any item on the agent's shall be sent to member governments and to participating public international organizations at the same time as the agenta for the session of as soon as possible thereafter.
- 6 The Commission shall not proceed to the discussion of any item not contained in the provisional agenda until at least 48 hours have clapsed from the time it is alled to the agenda

RUI E V SECRETARIAT

- 1 The Secretariat of the Commission shall consist of the Executive Secretary and those members of the staff of the Organ zation provided by the Director General in pulsuance of Article III paragraph 8 of the Constitution
- 2 It shall be the duty of the Secretariat t receive and encular documents reports and resolutions of the Commission and of its committees to prepare the records of their proceedings to could expenditure and financial commitm into and their manch att two terms is required of it by these Rules on by the C minists in or any of its committees.
- 3 Copies of all correspon lence colerning the Commis in alliesed to the Director-General by member governments and participating public international organizations shall be sent to the Executive Secretary at the regional office.

PULE VI PLENARY MEETINGS OF THE COMMISSION

1

1 Plenary meetings of the Commission shall be hell in public unless the Commission decides otherwise Subject to any decision of the Commission the Executive Secretary shall make an angements for the admission of the public and of representatives of the press and other information agencies to plenary meetings of the Commission

RULE VII WORKING LANGUAGES

English and breach shall be the working languages of the Commission.

RULE VIII ELECTION OF CHAIRMAN AND VICE-CHAIRMEN

- 1. The Charmin of Acting Charman shall at each regular session call to nominations from the floor for the offices of Charman and List and Second Vice-Charmen of the Commission for the ensuing year. Nominaces must be delegates to the Commission, and be duly proposed and seconded. The Commission shall then elect the Charman and Vice-Charmen from the housests.
- 2. The elected Chairman and Vice-Chairman shall held office from the time of their election to the time when their successors are elected at the nativigal assession. They shall be edge ble for re-election.

RULFIX

POWERS AND DUTIES OF THE CHAIRMAN AND VICE-CHAIRMEN

- 1 In addition to exercis n; such powers as are conferred upon him elsewhere by these Rules the Chairman shall declare the open in and closing of each plenary meeting of each session of the Commission. He shall direct the discussions in the planary meetings in 1 at such meetings chaire observance of these Rules, accord the right to speak, put questions and announce decisions. He shall rule on points of order and, subject to these Rules, shall have complete control over the proceedings at any meeting. He shall have complete control over the proceedings at any meeting. He shall have complete control over the proceedings at any to be established, observe their progress and help coordinate their efforts. When requested by the Director-General or the Council he shall represent the Commission at meetings of other interiorational bodies, and undertake other specified activities to help promote the objects of the Commission.
- 2 In the absence of the Chairman during a plenary meeting of any part thereof, one of the Vice-Chairman shall preside. A Vice-Chairman acting as Chairman shall have the same powers and duties as the Chairman.
- 3 The Chairman or a Vice-Chairman acting as Chairman shall not sote but my appoint another member of his delegation to act as the representative of his government in the Commission.

4 It for any reason the Charman is unable to continue in office, his place shall be taken by the Frist Vice-Charman pending the election of a new Charman at the next regular session. Similarly, should the Frist Vice-Charman be unable to continue to set as Charman, his place shall be taken by the Second Vice-Charman

RULE Y OUORUM AND VOTING ARRANGEMENTS

- 1. Only member governments shall have the right to vote
- 2 The presence of delegates representing a simple majority of the members of the Commission shall constitute a quotum
- 3 Except as provided in paragraph 6 of this Rule, voting in plenary meetings shall be oral or by show of hands provided that a vote by roll call shall be taken if a special majority is required by the Constitution, or these Rules, or if a request for a vote by roll call is made by any delegate.
- 4 Voting by roll call shall be conducted by calling upon delegates in the alphabetical order in English of the member governments which they represent
- 5. The vote of each delegate participating in any roll call vote, and any abstentions, shall be inserted in the record of the meeting
 - 6 Voting on decisions relating to individuals shall be by secret ballot
- 7 When no nominee for an office obtains in the first ballot a simple majority of the votes of members present and voting, a second ballot shall be taken confined to the two candidates obtaining the largest number of votes. If, on this second ballot, the votes are equally divided, the Chairman shall decide between the candidates by drawing lots.
- 8. If the Commission is equally divided when a vote is taken on a question other than an election, a second vote shall be taken at the next meeting of the current session. If the Commission is then again equally divided, the proposal shall be negligible as rejected.

RULE M COMMITTEES OF THE COMMISSION

- 1 The Commission may appoint, or authorize the appointment of, any temporary, special, or standing committee which it deems necessary.
- 2 The Chairman of each committee shall decide whether sufficient members are present to constitute a quorum
- 3. Committees shall meet in private unless their terms of reference specify otherwise

4 Freept as otherwise provided in this Rule, the Rules of Procedure of the Commission shall apply to far as practicable to its committees

BY ARIS

PARTICIPATING PUBLIC INTERNATIONAL ORGANIZATIONS

1 Unless the Commission expressly determines otherwise, the representatives of participating, public international organizations may take part in the discussions and work of the Commission and its committees

RULE AITI RECORD OF PROCEEDINGS

- 1 Summary records shall be made of all plenary meetings and meetings of committees, and shall be circulated as "coon as possible to members of abbushious who partnerpaid in the meeting connectined."
- 2 All official press communiques reporting sessions and work of the Commission shall be approved and issued by the Executive Secretary, subject to any instructions of the Commission.
- 3 The Organization shall communicate to all its members, to the United Nations and its Specialized Agencies, and to any other participating public international organizations as soon as possible after the end of each session, a report embodying the text of all resolutions recommendations and other formal decisions adopted by the Commission including when requested by them a statement of minority views

RULE JV FINANCE

- I Except as may be a herwise provided in these Rules, the Financial Regulations of the Organiza ion is implemented by the Administrative Manual and Neuroran Ia and the procedures big I thereon shall apply to the activities of the Commission
- 2 Each financial year the Commission shall proper estimates of funds required as related to its proposal activities for the ensuing year. Such estimates shall be submitted to the Director—General for consideration in the preparation of the general budget estimates of the Organization.
- 3 When alopted by the Conference as a part of the exercial budget of the Organization, the budget of the Commission shall constitute the limits within which officials designated by the Director-General may commit funds for purposes approved by the Conference
 - 4 The Executive Secretary shall submit monthly on the appropriate forms

the to Director-General through the Regional office, statements accompanied by the appropriate vouchers, setting out the expenditure effected and commitments incurred

- 5 The examination and author of the accounts of the Commission shall be conducted at the headquarters of the Organization. Any comments arising therefrom will be communicated to the Commission through the Regional office
- 6 Any funds contributed by member governments for cooperative projects under the terms of Attacle VI, pargraph 3 of the Constitution shill be administrated by the Organization in accordance with its established procedures for the administration of such funds and with any agreements made with contributing member governments.

RULE XV RELATIONSHIP WITH THE ORGANIZATION

- 1 The Chairman shall maintain close touch with the Regional office and shall, in consultation with the Regional Representative of the Director-General devise means to secure integration of the activities of the Commission with those of the Organization.
- The Director-General may at any time report (1 comment to the Commission on any aspect of its activities)

RUI E XVI LIAISON WITH INTERNATIONAL ORGANIZATIONS

The haison with other international organizations enjoined on the Commission by Article V of the Constitution shall take such form and be maintained through such channels as may from time to time be used for the purpose of liaison between the Organization and such bodies

RULE XVII AMENDMENT OF THE CONSTITUTION

- 1 Proposals for the Amendment of the Constitution under Article VIII of the Constitution may be made by any member government in a communication addressed to both the Chairman and the Director-General The Director-General shall immediately inform all member governments of all proposals for amendments.
- 2 No proposal for the unendment of the Constitution shall be included in the agenda of any session unless notice thereof has been sent by the Director-General to member governments at least 90 days before the opening of the session.

RUI E XVIII SUSPENSION AND AMENDMENT OF RUI ES

- 1. Subject to the provisions of the Constitution, any of the foregoing Rules other than Rule II, paragraphs 2, 4 and 5, Rule IV, paragraph 3, Rules V, XIV, XV, XVI, and XVII may be suspended by a two-thirds majority of the votes cast at any plenuly meeting of the Commission, provided that notice of the intention to propose the suspension has been communicated to the delegates not less than 24 hours before the meeting at which the proposal as to be made.
- 2. Amendments of, or additions to, these Rules may be adopted by a two-thirds majority of the votes east at any plenary meeting of the Commission, provided that the intention to propose the amendment or addition has been communicated to the delegates not less than 24 hours before the meeting at which the proposal is to be considered.
- 3. Any amendment to Rule XVII which may be adopted in accordance with the provisions of paragraph 2 of this Rule shall not become effective until the the next session of the Commission

APPENDIX C

FORM FOR REPORTING STANDARD VARIETIES OF RICE IN COMMERCIAL USE

(Please use one form for each variety)

Country

Address from which seed is available

I atitude of supplying station

Altitude of supplying station

Name of variety and number

Indicate whether variety belongs to Japonica

or Indica

days

Origin of variety

Pure Line/hybrid

Glutinous / Non - Llutinous

Awns-Absent/Tip only/Long

Kernel pericaip-Red/White

Life period at supplying station Vormal sowing time

Runfill during growing period

Approximate mean temperature during growing period

Maximum

Minimum

Upland (without bunds to fields and without irrigation) Lowland (bunded fields) Floatin.

Normally broadcast/transplanted

(ham fpa)dy) Len_th

Breadth

Thickness

1000 crain weight

Shedding / non-she lding

Straw height

I odgu- / non-lo lgin-Tillerin Gool/Melium/Bal

Approximate Yiell of paldy at supplying station

kum nei hectare

em

min

mm

mm s.m

lb< per acre per fentum whole rice

Normally parboiled/not parboiled

Millins out turn

Rice - Translucent / Ocaque

Rice - Specific gravity (lensity)

Special Characteristics

Dise ise resistance

Insect nest resistance

Saline tolerance

Drought Resistance

Presence of anthogyanin pigment

anl in what paits

Floo 1 tolerance

Any other special characteristics

NB

⁽¹⁾ Please do not delay this return if all the data are not immediately available Please give what informat on you can

⁽²⁾ When asking for seed please do not ask for larke quantities (100 gm or 4 oz limit) and state any special d a nfection or other certificates required by your country

⁽³⁾ Please give data in metric system

⁽⁴⁾ Please report all standard varieties i.e. all varieties maintained pure and recommended to the farmers of your country for growing You may report any others which you think may be of special inscrest to plant breeders

APPENDIX D

SCHEDULE OF BASIC INFORMATION REQUIRED FOR EACH RICE PRODUCING AREA

General characteristics

- 1 Approximate rice area in the country region or province (See foo note next page)
- 2 Altitude
- 3 Tatitude
- 4 Rice season part of the year and its luation
- 5 Average temperature luring the rice growing season 6 Average runfall luring the rice glowing season-distribution
- 7 Soils (a) Rough description-Sauly loam loam clays heavy clays etc (b) Ph status of the soil maximum unl minimum if I nown or
 - simply acidic or neutral or alkaline
- 8 General cultural practices 9 Average yield of grain per unit per acie in the region of tract
- 10 Main problem of the region or tract with relation to increasing production
- 11 Improvements available and the percentage increase in yiell which such improvements have already brought about or are capable of problems.

Crop characteristics

- 1 Upland rec or lowland rice and the life period of deciop energlis at win
- 2 Variety most common non slutinous or clitinous
- 3 If lowland rice completely rain fel partly nripa el i mainly ningatel If irrigated the amount of water required by the erol in acre inches
- 4 Directly sown or transplanted
- 5 Practice of double cropping if anv
- 6 Rotations with other crops if any
- 7 Common fertilizer for manuing practices and the amounts

Economic Factors

1 Size of holdings and type of tenancy most prevalent

- 2 What are the credit facilities available to the rice growers
- 3 What is the arrangement existing for supply of good seed to the growers
- What are the facilities available for the growers to obtain adequate quanti-
- 5 The extension practices which have proved most successful

NOTES

- Where a country has its rice area distributed over different coological regions or tracis information required may be given separately for each of the regions
- If there are any special conditions not covered by this questionnaire which are responsible for the present low or high average yields per acre they may please be mentioned
- Data should be given in the metric system or in the system of the country with metric equivalents

APPENDIX E.

REPORT OF THE SUBCOMMITTEE ON NUTRITION

- 1 The chief function of this sub-committee is to inform and advise Committee B on the nutritional aspects of rice distribution and utilization
- 2 The sub-committee will also review some of the problems listed in Document IRC 49/3, Section III, and submit them to the International Rice Commission for early action
- Vulous technical nutrition problems will be referred to the Nutrition Committee for Asia and the Far East for consideration as recommended in the Baguio Nutrition Meeting
- 4. In Document IRC 49/8, Section III, (1), Rice Breeding, specific mention is made of "breeding for higher nutritive value," The subcommittee suggests that the Committee on Rice Production (Committee A) should be reminded of the importance of carrying out the chemical analysis of rice in connection with studies on improved varieties. It is essential not only to obtain higher yields but also to produce rice of high nutritive value and good milling qualities.
- 5 The subcommittee feels that an international definition of properly milled nee from the point of view of mutrition is needed. The Bagnie Nutrition Meeting adopted a minimum standard of 15 micrograms of thinamine (Vitamin B₁) per gram of lice. For the use of the milling technicians, it may be possible to define the best kind of milled rice by determining the maximum degree of removal of certain parts of the lice grain, such as the aleutone layer and the embryo. Therefore, futher anatomical and chemical research on the distribution of the nutrients in the various parts of the rice grain—as has been done for other certain—should be encounted.
- The preservation or restoration of nutritive values during the process of tannforming paddy to the edible form of rice can be achieved along different lines;
 - a. By improving the present milling practice to produce the properly milled rice referred to in paragraph 5.

- b By purboling leading to a ploduct which retains a much larger quantity of nutrients than ordinary milled rice and is much less susceptible to the loss of nutrients by washing and cooking
- c. By enrichment or reinforcement with vitamins and minerals
- Improvement of milling practices requires more accurate knowledge regailing the distribution of the principal nutrients in the rice grain and the practical possibility of preserving luting the milling process a sufficiently large proportion of the richest parts of the grain

Countries which have aliesdy undertaken or are willing to undertake studies on this subject under the following headings are requested to report to the Executive Secretary of the International Rice Commission and to make the usults shy also obtained usul'able to workers of other countries

- a Chemistry of the giain of rice with special reference to the dis-
- b Technology of the milling process, with the same special

The matter is to be submitted to the Sutlition Committee for Asia and the Far East

- The process of parboiling as described on page 17 of Rice and Rice Dicts¹ may result in a product which is slightly yellow before cooking, but which is white when cooked and does not differ markedly in taste from the orlinary rice. It has a tougher texture and will not turn pasty after prodon_oel cooking. An eypert from Indo-China has informed the sub committee that such results can be schievel by the following techniques cleaning by blowing and washing soaking a 25-30 C for one day changing water set if times during soaking, straining in autoclave at 120 C for 15 minut 5 diging by a countri-cuttent 5t un of hot ur
- 9 Improvement of this parboiling technique is desirable in his possible by sumply modified and of the methods were in many wives in South and Link has The following are some of the Silver storm.
 - a Circful cleaning of paddy is necessary
 - b The following precautions should be taken in soaking
 - (1) Water must be changed as many times as necessary
 - (11) temperature should not be too high but a certain depree of heat is recommended to shorten the working time to about 12 hour. This will prevent fermentation.
 - 1 FAO Nutritional Studies No 1, September 1948

- c Heating by livesterm for 30 minutes atmospheric pressure seems to produce less coloration of the grain
- d Drying at too high temperatures should be avoided to prevent coloration of the grain
- 10 A brief review of the economic aspects of parboiling has been made by the subcommittee. This is to be submitted to the consideration of economic experts. The advantages of publishing the summarized as follows:
 - a Production of more nec suitable for human consumption from the same amount of paddy 'bun by ordinary milling methods (from normal g ade paddy 70 percent as against 66 percent by ordinary milling, from low-grade paddy, 70 percent as against 50 percent by ordinary milling)
 - b Less breakage in milling
 - e Possibility of using lower-grade paddy.
 - d Better storage and keeping qualities and higher resistance to insect and fungi infestation

The disadvantages may be listed as follows

- a Need of capital investment for the parboiling plant
- b Cost of operating the plant
- 11 The following calculations on the conservation of a ce and seme of its mit tents by parboiling have been submitted to be subcommissed.
 - a. Assuming that the parboiling of free results in a saying of 2 percent in the milling process alone—which is a very conservative estimate—there would be a saving of 3 million metric tons of rice annually if all the rice proluced in the would were purposed. If the reduction in storage losses due to the superior keeping quality of purboiled rice and the possibility of maing lower—grade puddy are also taken into account the amount of rice saved will be greater.
 - h Calculations based on Table 14, page 62 of Rice and Rice Diets show that, by pubbling tree a saving of 165 metric tons of thirmine annually is possible. This is many times more than the total amount of thirmine for which there is production capacity in the world at the piesent morent.
 - c Since pulsoiled lice is also higher than or linear milled lice in other ritemins and in protein fat and minerals, such a step would be a major contribution towards improving the nutritional standard of ince-eating people

The subcommittee is of the opinion that for the above reason the question of pulsorling deserves the closest attention of all authorities concerned.

12 Acceptability of particule l rice

- a Some trades of parboiled nice which have a dark color and a strong small indicate are considered unsmithle for human consumption in some countries they are however well accepted in other countries where the neonle are accustomed to their use
 - b Consuma acceptability among populations not accustomed to pulsoid line should be reconsidered as the objections and of in the past of circle usually to impropedly processed products
- c Whether consumer trials of properly processed paiborled rice have been made on normal consumers in rice-eating countries is unknown to the subcommittee no records having been found on that point. The subcommittee feels it necessary to call attention once more to the recommendation of the Baguio Nutrition Committee that such trials be made.
- I Aware that an extensive tiral of another I in I of sice is being conducted in the Philippines on normal consumers in a geographic cally separated part of the country the subcommittee suggests that tests of acceptability of pulbodel rice be conducted in isolated communities where the consumption of sice is controlled. It may also be alvisable to try the acceptability of pulbodel sice in bonding schools or other institutions.

13 Digestibility of parboile l nice

- a No data are now available on the ligestibility of even ordinary nice (See Report of Autotion Committee Baguio page 18)
- 1 In the opinion of some people pubbiled rice is less digestible than addinary milled lice but scientific investigations on this subject on different use groups of rice-cutin, populations should be carried out. The Nutrition Division of FAO is prepared to supply late on the techniques of leterminin, higestibility.
- c Further consideration of the matter is to be referred to the Nutrition Committee

14 Fnrichment

Experiments on the enrichment of lice his new being conducted in the Philippines and in Singapole but it is too carly to make any definite statement on their results. It can be said however that in the Philippines the

experiment has led to a drop in the mortality rate from infantile bein-berk, and that in Singapore "the consumption of a small amount of emiched rice" does have a beneficial infinence on the health of those who cat it" (Doc IRC/49/18, page 3)

15 Nutrition Research Fund

- The subcommittee feels that in view of the various pitolities which face all governments today, the necessary research on the various aspects of nutritional studies of rice is likely to be seriously delived. Therefore, the subcommittee would suggest that the Commission resolve that each member Government should be requested to contribute to a Nutrition Research Fund, the total amount of which would be from \$100,000 to \$200,000. The Director—General would be entrusted with the responsibility of determining the scale of contributions of individual countries. The fund would be administrated by the Nutrition Division through the regional offices.
- b It is pointed out that this proposal is a practical implementation of the Baguro Nutrition Committee recommendations regarding regional retrivities (page 20) and program of action (Appendix A, page 22)
- c In devising the matter of procedure it is suggested that the research items to be dealt with should be put on the following priority order
 - (1) Digestibility of rice with special reference to parboiled lice
 - (11) Improvement of parboiling methods
 - (111) Consumer trials on parboiled rice
 - (iv) Anatomical and chemical studies on location of nutrients in the rice grain
 - (v) Chemical composition of different varieties of lice
 - (vi) In addition, member governments could recommend the study of other problems but the Nutrition Division may review the situation and decide on the problems to be undertaken In this connection, the Thai delegation suggests the study of the effects on nice-eaters of diets containing a large proportion of unitating condiments

16 Incidence of disease

a With reference to the high incidence of disease indicated in Section II, item (2) of Doc IRC 49/8, the subcommittee has been informed by

the Director of the Division of Malaria of the Thai Ministry of Health on the problem of malaria in Thailand and the effect of this disease on rice production

- b With full appreciation of the seriousness of the situation in Thailand and in other rice-producing countries, the subcommittee strongly recommends that the Commission emphasize to WHO and UNICEF the need of immediate action for the provision of trained personnel and anti-malaria drugs and equipment to combut this disease efficiently in lice-producing areas.
- c The subcommittee points out that what is true for malaria may also be true for other diseases prevalent in rice-producing areas, such is hookworm infestation vaws etc. and similar action should be taken on these
- d The whole matter is to be referred to Committee A and to the Nutrition Committee

17 Incidence of malnutrition.

- a The subcommittee teels that nothing needs to be added to the statement made on the subject of malnutrition under Section II, item (3), of document IRC 49/3
- b Consilering that malnutiation of faimers and itual workers is one of the important factors hampening the production of rice it is recommended that action be undertaken for the improvement of nutrition in lice-piolucing areas
- C Special attention is to be paid to the educational side of the problem.
- d The matter is to be referred to Committee 4 and submitted to the Nutrition Committee

18 General recommendations

- a The subcommittee requests that the Commission encourage governments to conduct a nutritional survey of the irce-cuting populations unimediately in relation determine their present mutritional status, in I to report the results to the fertheomin, meeting of the Nutrition Committee
- b With regul to the question of personnel, the subcommittee emphasizes the neel of training nutrition workers. It is recommended that only a few well-qualified persons receive advanced training from abroid, many of the field workers may be advantageously trained in some training centres in Asia, where conditions would be similar to those which they will encounter in actual field work in their own country.

APPFNDIX F

INTERNATIONAL RICE TERMINOLOGY

Recommended Terms	Definitions	Comments		
!, Stalk Paddy ^t	Unthreshed rice in the husk, harvested with part of the stalk.			
2. Paddy	Rice in the husk after threshing.	Also called rough rice in some countries.		
3 Rice ² Husked Rice	Rice from which the husk only has been removed; it still retains the bran layers and most of the germ	Commonly referred to as "brown rice" even though there are varieties having red or white bran coats. In some regions called "hulled lice" or "cargo lice."		
Home-pounded Rice	Rice from which the husk, germ, and bran layers have been partially removed with- out use of power machinery.	Also called "hand~pounded rice."		
Undermilled Rice	Rice from which the husk, germ and bran layers have been only partially re- moved by power machinery	Called "unpolished rice" in the United States.		
Milled Rice	Rice from which the husk, germ, and bran layers have been substantially removed by power machinery.	Rice can be milled to va- rious degrees. If milled to a high degree it is generally called "white rice."		

Terms	Definitions	Comments
Coated Rice	Rice milled to a high degree and then coated with a foreign substance such as glucose or talenm.	Galled "polished rice" in Europe. In the United States the term "polished rice" is used, however, for rice which has been milled to a high degree and which has gone through the brush. In Japan the same term is used for highly milled rice treated with polishing pow- ders. The term "polished" therefore causes much con- fusion
Parboiled Rice ³	Rice obtained by pounding or milling from paddy which	Puboiled lice may be home- pounded or milled to various

C------

Converted ' and

Malekised 'rice is included

Also called "rice meal" or

rice flour 'in some regions

At the present time there is

no appropriate term

de_rees

... +6------

D.f.,

Recommended

Rice

Polishings

	sequently diled	in this category		
4 By-products Husks	By-product from the mili- ing of rice consisting of the outermost covering of the paddy grain	Also called hulls' or chaff in some countries		
By-products (Cont) Bran	A by-product from the milling of rice, consisting of the outer bran layers of the kernel with part of the germ	Also called "cargo meal in some countries		

has been steeped in water.

steamed or heatel and sub

By-product from the mill-

ing of rice, consisting of

the inner bran layers of the

Definitions of Whole and Broken Grains

Recommended Terms	Definitions	Comments		
Whole grain Rice	Rice which loss not contain broken grains smaller than three quarters of the whole grain	The term whole lice is sometimes used for husked lice but also for whole— grain rice and therefore causes much confusion		
Broken Rice	Rice consisting of bloken stains smaller than three-quirters of the whole grain	Various classifications of bloken lice are in use by the trade		
Brewers Rice	Very small brol en 11ec	Generally used for industrial an 1 fee ling purposes		

NOTES

- 1 In reporting statistics stalk paddy should be converted into terms of paddy
- 2 Unless other vise specified these terms apply to rice in its natural state
- Glutinous rice is a special botan cal variety of rice which after cooking has a peculiar st kiness. It can be milled to var ous degre s or home pounded in the same way as ordinary r ce and will then be called glu nous milled glut nous home pounded nce etc
- Enriched or fort field rice is that which has been treated by alding vitamins and for m nerals to milled rice (or the rice to which such treated rice has been added) so as to improve its nutrient content
- 3 Parboiled paddy can be milled to various degrees or home pounded in the same way as ordinary padd; and will then be called parbo led milled parboiled home pounded rice etc. The term ray rice is sometimes used in India to indicate that rice has not been given
- any heating treatment such as parboiling 4 Commercial grades of rice contain various proportions of whole and broken grains therefore these definitions should not be confused with grading standards

APPENDIX C

RECOMMENDED RICE BALANCE SHEET

	1	11	III.
Supply	Paddy	¹ Husked Rice	Milled Rice Equivalent
a) Stocks at the beginning of the year2			. 1
i) Production			'
e) Imports]
Total			
	,		
Utilization		1	1
d) Seed		X	
e) Feed			'
f) Industrial and other uses)
,) Exports			
h) Waste			. 1
i) Supplies converted during the year			x
j) Human consumption	73	X4	- 1
k) Stocks at end of year ²			' (
Total			l
1) Population ⁵			t t
m) Per capita consumption			
n) Average conversion factors used ⁵			1

¹ Column II is optional and may be expressed in terms of busked bome pounded or undermilled note as a convenient for the particular country concerned 2. Where stocks figures are not available they may be eliminated from the belance sheet

³ To be multiplied by convers on rate of paddy to busked rice and the result added to

⁴ To be multiplied by conversion rate of husked to milled rice and the result added to

⁵ Opnonal

NOTE

It is recommended that the balance sheet be carried through three stages or at least two In the first instance the details should be those for paddy. The balance would then be available for conversion at the appropriate extraction rate into husked or home pounded or under milled rice.

In the second stage (which may be ignored) similar details may be prepared for husked home pounded or undermilled rice 'eaving a la'ance to be converted at the appropriate extraction rate into milled rice

In the final stage the details should be in terms of milled noe which would include broken iten and brewers nice but exclude brain and other by products which would have been slimin ared in the application of the extraction rates

In this way the fin 1 b. lance sheet would be in terms of milled rice and therefore be in line with international trade statistics which are also in terms of milled rice

Esumates of many of the items included in this table are liable to a wide margin of exrol. It is therefore suggested that the es ima e of the quarity consumed in ernally per capia be reach d by the method of sampling which in carried out sufficiently, widely should produce a more accurate result or at least a convenient cheel. It is also suggested that all nems employed in the rice balance sheet should be checked as widely as possible by the sampling me hou.

In due course when the component parts of the Rice Balance Shee, have be n more ac curately es imated by use of the samplin, method a more sausfac or; formula could be devised in the light of experience

APPENDIX H

AGENDA OF THE INAUGURAL MEETING

- 1 Aloption of Riles of Procedures of the International Pice Commission and Jection of Chairman and Vice-Chairman
- 2 Formation of committees on (a) Rice Production (b) Distribution and Utilization of Rice (c) Rice Statistics and Terminology (These Committees will be refly review the relevant working papers the recommendations of the Rice Study Group and of the Baguio Rice and Nutrition Meetin s and will foundate its proposals with reference to items 3 4 and 5 of this Meetin)
- 3 I rief ieview of the major obstacles to the expansion of rice production and to it obtto utilization of a vilable supplies including, improvement of a trition and consideration of practical measures that can be taken to ward removing these of stacles.
- 4 Frammation of the steps that have been taken a improve national ril in ternational rice statistics and the formulation of a program for curryin forward this work
- 5 Determination of the specific activities to be undertak n or sponsoiel by the Commission including consideration of how such activities should be carried forward and how they should be integrated with similar activities of member governments and the work of the technical livisions of FAO
- 6 Consideration of the scope and nature of the Commissions first annual report to the Council of FAO in accordance with the provisions of Article IV (1) of the Constitution
- 7 Preparation of the Commission's program of activities for 1949-1950
- 8 Propose 1 bulget of the Rice Commission for 1950
- 9 Provisional agenta and other arrangements for the next meeting of the Commission
- 10 Other business

APPENDIX I

ROSTER OF DELEGATIONS AND OBSERVERS FIRST SESSION. INTERNATIONAL RICE COMMISSION

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